MIXING METHOD, MIXING STRUCTURE, MICROMIXER AND MICROCHIP PROVIDED WITH MIXING STRUCTURE

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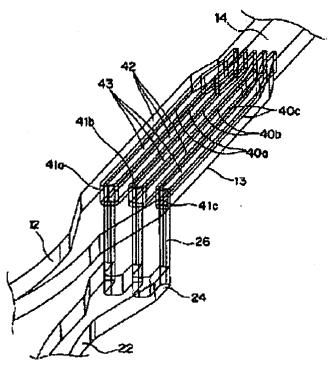
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Abstract of JP2003001077

PROBLEM TO BE SOLVED: To provide a mixing method, a mixing structure, a micromixer and a microchip provided with the mixing structure, by which diffusion and mixing are efficiently performed in a very small region. SOLUTION: The mixing structure is provided with a 1st flow passage 12, a plurality of 1st branched flow passages 42, one or more 2nd branched flow passages 43, one or more 2nd flow passages 26 and a mixing flow passage 14. The 1st branched flow passages 42 are connected to the end part of the 1st flow passage 12, extend to the nearly the same direction as that of the 1st flow passage and are formed in nearly parallel to each other with a certain interval in layers. The 2nd branched flow passages 43 are formed at least among the 1st branched flow passages 42 in layers. The 2nd flow passages 26 are arranged on a different plane from a plane including the 1st flow passage 12 and the 1st branched flow passages 42 and are connected to the 2nd branched flow passages 43. The mixing flow passage 14 are connected to the 1st branched flow passages 42 and the 2nd branched flow passages 43 at the end part to be laid alternately over the other.



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